

Title (en)  
DC ELECTRICAL MACHINE WITH CENTER-TAP WINDINGS SYSTEMS AND METHODS

Title (de)  
ELEKTRISCHER GLEICHSTROMMOTOR MIT MITTELABGRIFF-WICKLUNGSSYSTEMEN UND VERFAHREN

Title (fr)  
MACHINE ÉLECTRIQUE À COURANT CONTINU COMPORTANT DES SYSTÈMES ET PROCÉDÉS D'ENROULEMENTS DE PRISE MÉDIANE

Publication  
**EP 3247035 B1 20210113 (EN)**

Application  
**EP 17170321 A 20170510**

Priority  
US 201615157167 A 20160517

Abstract (en)  
[origin: EP3247035A1] A direct current electrical machine, which includes a rotor that generates a rotor magnetic field, a first commutation cell (36) that includes a winding component (44), a first switching device (42A), and a second switching device (42B). The first winding component includes a first portion electrically coupled between a first terminal and a second terminal of the first winding component (44) and a second portion electrically coupled between a third terminal and the second terminal of the first winding component (44). The first switching device (42A) is electrically coupled to the first terminal and is closed when a first voltage induced across the first portion by rotation of the rotor magnetic field is positive; and the second switching device (42B) is electrically coupled to the third terminal and is closed when a second voltage induced across the second portion by the rotation of the rotor magnetic field is negative.

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CPC (source: CN EP US)  
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